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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/092,737	03/08/2002	Kenji Shimazaki	61282-022	7329
7590 01/15/2004 MCDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			EXAMINER TAYLOR, VICTOR J	
			ART UNIT 2863	PAPER NUMBER
DATE MAILED: 01/15/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/092,737

Applicant(s)

SHIMAZAKI ET AL.

Examiner

Victor J. Taylor

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 March 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-58 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-58 is/are rejected.
- 7) ☒ Claim(s) 22 and 27 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☒ Other: *Office Action*.

DETAILED ACTION

Drawings

1. The drawings were received on 8 March 2002. These drawings are approved.

Specification

2. Claim 22 is objected to because of the following informalities:

The method claim wording in using the analyzing step for detecting an integrated circuit section by using the signal arrival within a time window as a "time required for circuit operation due" as found in dependent claim 22 is lengthy and unclear. Correction is required.

3. Claim 27 is objected to because of the following informalities:

Claim 27 is dependent on claim 1, an electromagnetic disturbance analysis method for analyzing the noise in an integrated circuit and is in improper form with independent claim 1. Claim 27 is reciting the semiconductor device manufacturing method with a step of manufacturing semiconductor devices and combines a form of manufacturing method that is in different method form of the independent claim and broadens the limitation of the independent claim 1 and fails to further limit the analysis method of claim 1 with the correct method steps. The claims appear to be a direct copy of the Japanese's priority document. Appropriate correction is required.

Prior Art

4. The prior art of record and not relied upon is considered pertinent to the applicant;

I. Martin US 5,970,429 is cited for the method and apparatus for measuring electrical noise in LSI circuits. See abstract and entire patent.

II. Takagi et al., US 5,436,559 is cited for the method and apparatus for testing semiconductor devices. See abstract and entire patent.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

6. Claims 1-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The applicant has indefinite and incomplete method claim structure in claim 1 and claim 28 and claim 41 the electronic disturbance analysis method for the impedance extraction step or the power wiring in the semiconductor with an incomplete equivalent circuit creating step and an analysis step that fail to show the clear and concise method steps and is with indefinite and incomplete method steps and seem to recite a desired result for analyzing an external noise.

The applicant has indefinite and incomplete apparatus claim structure in apparatus claim 16 and claim 40 and claim 47 for "the electromagnetic disturbance

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analysis" apparatus extraction step or the power wiring in the semiconductor with incomplete equivalent circuit apparatus and an analysis unit that fails to show clear and concise apparatus for support and use with the method steps in claims 1, 28, and 41 and seems to recite a desired result for analyzing an external noise.

Dependent claims 2-15, 17-27, 29-39, 42-46, and 48-58 are variously dependent on a rejected base claim.

The claim structure appears to be a copy of the Japanese priority document and is in improper US form, corrections or amendments are required.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor J. Taylor whose telephone number is 703-305-4470. The examiner can normally be reached on 8:00 to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 703-308-3126. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-4509 for regular communications and 703-308-5841 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

Victor J. Taylor
Examiner
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5 January 2004

